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APPLICATION NO	Э.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/086,945		02/28/2002	Akio Sugama	6136/60703 (0025916-265) 8529	
30764	759	02/04/2004		EXAMINER	
		MULLIN, RICHTER	SONG, SARAH U		
333 SOUTH HOPE STREET 48TH FLOOR				ART UNIT	PAPER NUMBER
				ARTUNII	PAPER NUMBER
LOS ANGELES, CA 90071-1448			2874		
			DATE MAILED: 02/04/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	t(s)				
		10/086,945	SUGAMA ET AL.					
	Office Action Summary	Examiner	Art Unit	21				
		Sarah Song	2874	Au				
Period fo	The MAILING DATE of this communication or Reply	n appears on the cover sheet with the	e correspondence add	iress				
THE I - Exter after - If the - If NO - Failu - Any r	ORTENED STATUTORY PERIOD FOR R MAILING DATE OF THIS COMMUNICATION SIDE OF THIS COMMUNICATION SIDE OF THIS COMMUNICATION SIDE OF THIS FROM THE MAILING BETT OF THE METTING THE	ON. FR 1.136(a). In no event, however, may a reply be on. a reply within the statutory minimum of thirty (30) operiod will apply and will expire SIX (6) MONTHS frostatute, cause the application to become ABANDO	timely filed days will be considered timely, om the mailing date of this cor NED (35 U.S.C. § 133).					
	Responsive to communication(s) filed on							
2a) <u></u>	This action is FINAL . 2b)	This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
5) 6) 7)	Claim(s) 1-45 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. Claim(s) is/are allowed. Claim(s) is/are rejected. Claim(s) is/are objected to. Claim(s) 1-45 are subject to restriction and/or election requirement.							
•	on Papers	aror diconort roquiternerit.						
9) 10)	The specification is objected to by the Exa The drawing(s) filed on is/are: a) Applicant may not request that any objection to Replacement drawing sheet(s) including the co The oath or declaration is objected to by the	accepted or b) objected to by the other drawing(s) be held in abeyance. Someotion is required if the drawing(s) is a	See 37 CFR 1.85(a). Objected to. See 37 CFI					
	inder 35 U.S.C. §§ 119 and 120							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 13) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application) since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. a) The translation of the foreign language provisional application has been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121 since a specific reference was included in the first sentence of the specification or in an Application Data Sheet. 37 CFR 1.78. 								
Attachment								
2) D Notic	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-944 nation Disclosure Statement(s) (PTO-1449) Paper No	8) 5) Notice of Informa	ry (PTO-413) Paper No(s) I Patent Application (PTO-					

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DETAILED ACTION

Election/Restrictions

- 1. Restriction to one of the following inventions is required under 35 U.S.C. 121:
 - Claims 1-12 and 35-39, drawn to optical wiring substrates, classified in class 385, subclass 14.
 - II. Claim 13, drawn to a method of making an optical wiring substrate, classified in class 216, subclass 24.
 - III. Claims 14-26, drawn to a multilayer optical wiring substrate comprising vias and slits, classified in class 385, subclass 14.
 - IV. Claims 27-34, drawn to a multilayer optical wiring substrate comprising an optical interlayer transfer portion having concave lenses, classified in class 385, subclass 33.
 - V. Claims 40-45, drawn to a multilayer optical wiring substrate comprising optical transmittance distributive regions, classified in class 385, subclass 14.

The inventions are distinct, each from the other because of the following reasons:

2. Inventions II and I (or III or IV or V) are related as process of making and product made. The inventions are distinct if either or both of the following can be shown: (1) that the process as claimed can be used to make other and materially different product or (2) that the product as claimed can be made by another and materially different process (MPEP § 806.05(f)). In the instant case the process claimed can be used to make other and materially different product, such as a mirror.

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- 3. Inventions III and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the slab waveguide and planar convex lens continuously formed of claims 1-4, orthogonalized input and output terminals of claims 5-10, fibers of claims 11 and 12, or a waveguide comprising a convex tip or cylindrical face of claims 35-39. The subcombination has separate utility such as waveguide to waveguide couplers not comprising vias or slits.
- 4. Inventions IV and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the slab waveguide and planar convex lens continuously formed of claims 1-4, orthogonalized input and output terminals of claims 5-10, fibers of claims 11 and 12, or a waveguide comprising a convex tip or cylindrical face of claims 35-39. The subcombination has separate utility such as waveguide to waveguide couplers not comprising the particular interlayer transfer portion.
- 5. Inventions V and I are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require

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the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the combination does not require the slab waveguide and planar convex lens continuously formed of claims 1-4, orthogonalized input and output terminals of claims 5-10, fibers of claims 11 and 12, or a waveguide comprising a convex tip or cylindrical face of claims 35-39. The subcombination has separate utility such as waveguide to waveguide couplers not comprising the optical transmittance distributive regions.

- 6. Inventions III and IV (or III and V, or IV and V) are related as subcombinations disclosed as usable together in a single combination. The subcombinations are distinct from each other if they are shown to be separately usable. In the instant case, invention III has separate utility such as a wiring substrate not comprising the particular optical interlayer transfer portion or the particular optical transmittance distributive regions. See MPEP § 806.05(d).
- 7. Because these inventions are distinct for the reasons given above and the search required for Group I is not required for Group II, III, IV or V, restriction for examination purposes as indicated is proper. Likewise, the search required for Group II is not required for Group I, III, IV or V; the search required for Group III is not required for Group I, II, IV or V; the search required for Group IV is not required for Group I, II, III or V; and the search required for Group V is not required for Group I, II, III or IV.
- 8. This application contains claims directed to the following patentably distinct species of the claimed invention: Figures 10-12 (claims 1-4), Figure 13 (claims 5-10), Figure 21 (claims 11, 12) and Figures 44-47 (claims 35-39).

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If Invention I is elected, Applicant is further required under 35 U.S.C. 121 to elect a single disclosed species for prosecution on the merits to which the claims shall be restricted if no generic claim is finally held to be allowable. Currently, no claim is generic.

Applicant is advised that a reply to this requirement must include an identification of the species that is elected consonant with this requirement, and a listing of all claims readable thereon, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered nonresponsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

Should applicant traverse on the ground that the species are not patentably distinct, applicant should submit evidence or identify such evidence now of record showing the species to be obvious variants or clearly admit on the record that this is the case. In either instance, if the examiner finds one of the inventions unpatentable over the prior art, the evidence or admission may be used in a rejection under 35 U.S.C. 103(a) of the other invention.

- Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).
- 10. Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the

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currently named inventors is no longer an inventor of at least one claim remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

11. Any inquiry concerning the merits of this communication should be directed to Examiner Sarah Song at telephone number 571-272-2359. Any inquiry of a general or clerical nature, or relating to the status of this application or proceeding should be directed to the receptionist at telephone number 703-308-0956 or to the technical support staff supervisor at telephone number 703-308-3072.

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John D.Løe Primary Examiner